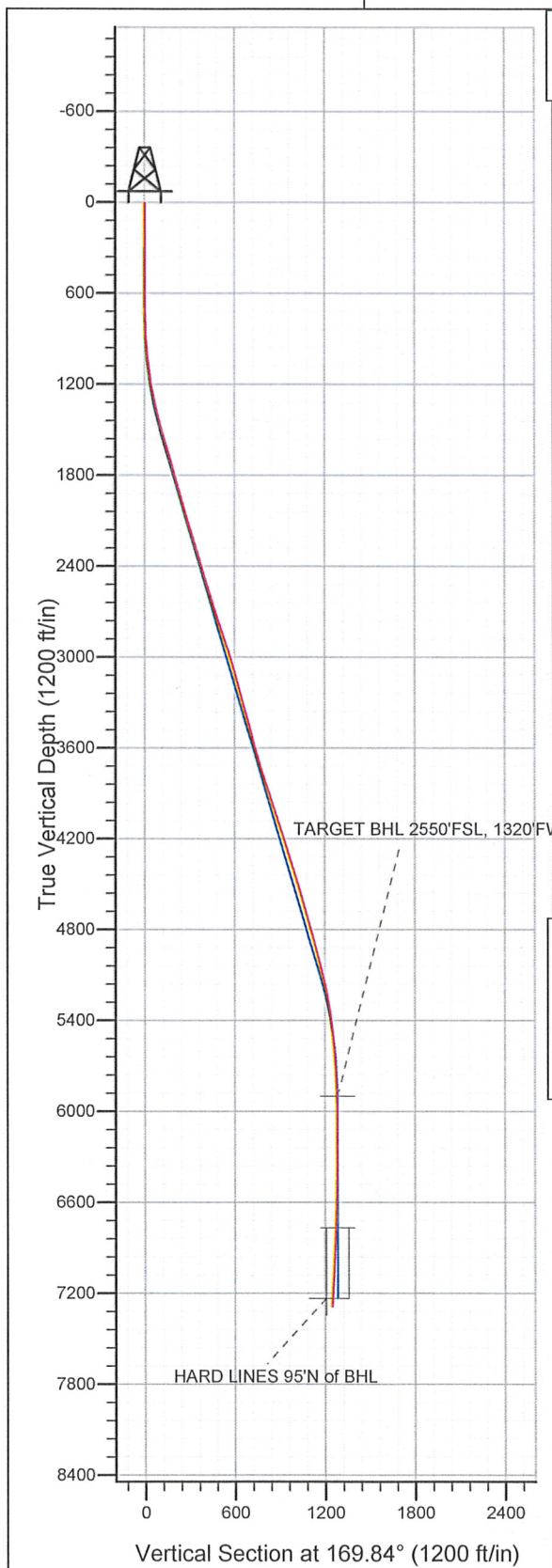
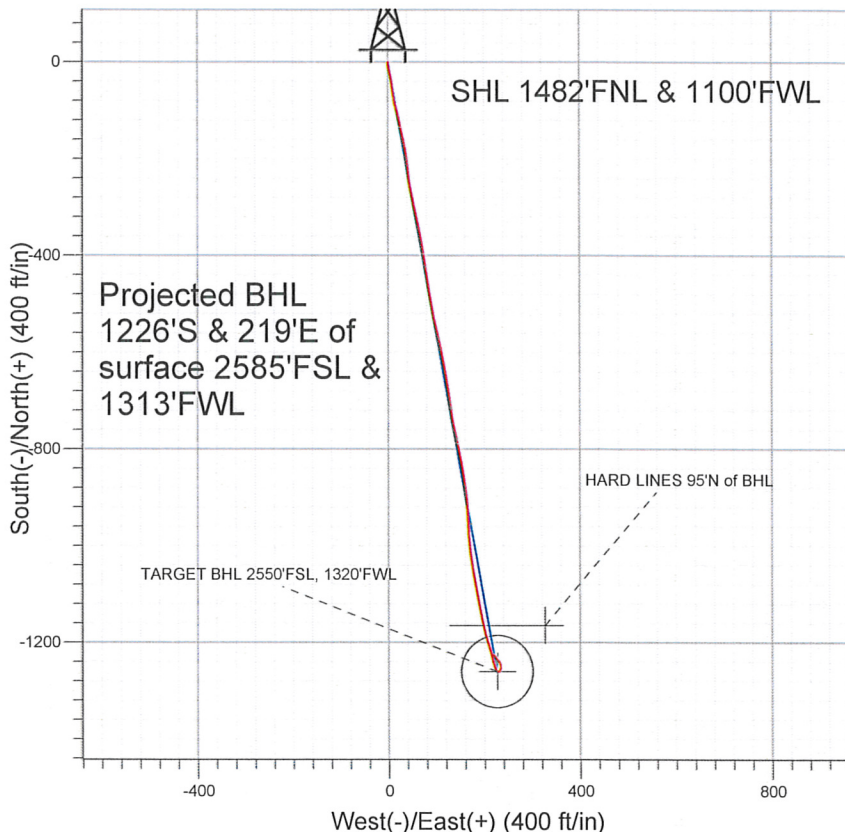


Well Name: **Easton G12-20D**

Surface Location: Easton G12-20D Pad Sec.12-T4N-R65W
North American Datum 1983 US State Plane 1983 Colorado Northern Zone
Ground Elevation: 4760.0
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 1364325.56 3246176.89 40° 19' 48.396 N 104° 37' 1.164 W
Original Well Elev WELL @ 4773.0ft (Original Well Elev)



NOBLE ENERGY INC WELD COUNTY CO



LEGEND

- Easton G12-20D, Wellbore #1, Noble Easton G12-20D Plan #1 (11-22-10) V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
7462'MD & 7285'TVD @ 1245'VS
4.8 deg Inc 319.5 deg AZ

Project: SEC.12-T4N-R65W
Site: Easton G12-20D Pad Sec.12-T4N-R65W
Well: Easton G12-20D
Plan: Wellbore #1

Company:	NOBLE ENERGY INC WELD COUNTY CO	Local Co-ordinate Reference:	Site Easton G12-20D Pad Sec.12-T4N-R65W
Project:	SEC.12-T4N-R65W	TVD Reference:	WELL @ 4773.0ft (Original Well Elev)
Site:	Easton G12-20D Pad Sec.12-T4N-R65W	MD Reference:	WELL @ 4773.0ft (Original Well Elev)
Well:	Easton G12-20D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.12-T4N-R65W, Weld County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	Easton G12-20D Pad Sec.12-T4N-R65W				
Site Position:		Northing:	1,364,325.58 ft	Latitude:	40° 19' 48.396 N
From:	Lat/Long	Easting:	3,246,176.89 ft	Longitude:	104° 37' 1.164 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.57 °

Well	Easton G12-20D					
Well Position	+N/-S	0.0 ft	Northing:	1,364,325.56 ft	Latitude:	40° 19' 48.396 N
	+E/-W	0.0 ft	Easting:	3,246,176.89 ft	Longitude:	104° 37' 1.164 W
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,760.0 ft	

Wellbore	Wellbore #1				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/23/2010	8.85	67.04	53,170

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	169.84	

Survey Program		Date	5/31/2011		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
736.0	7,462.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
736.0	0.20	169.60	736.0	-1.3	0.2	1.3	0.03	0.03	0.00
783.0	1.00	193.20	783.0	-1.8	0.2	1.7	1.75	1.70	50.21
877.0	2.90	173.70	876.9	-4.9	0.2	4.9	2.11	2.02	-20.74
971.0	4.90	168.50	970.7	-11.2	1.3	11.3	2.16	2.13	-5.53
1,064.0	7.00	167.80	1,063.2	-20.6	3.3	20.9	2.26	2.26	-0.75
1,158.0	9.10	169.00	1,156.3	-33.5	5.9	34.0	2.24	2.23	1.28
1,252.0	10.80	171.30	1,248.9	-49.5	8.7	50.3	1.86	1.81	2.45
1,347.0	13.20	172.00	1,341.8	-69.1	11.5	70.0	2.53	2.53	0.74
1,440.0	14.80	166.30	1,432.0	-91.1	15.8	92.5	2.27	1.72	-6.13
1,534.0	16.00	166.30	1,522.6	-115.4	21.7	117.4	1.28	1.28	0.00
1,627.0	16.10	166.80	1,612.0	-140.4	27.7	143.1	0.18	0.11	0.54
1,721.0	16.80	167.80	1,702.2	-166.4	33.5	169.7	0.80	0.74	1.06

Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.12-T4N-R65W
Site: Easton G12-20D Pad Sec.12-T4N-R65W
Well: Easton G12-20D
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Site Easton G12-20D Pad Sec.12-T4N-R65W
TVD Reference: WELL @ 4773.0ft (Original Well Elev)
MD Reference: WELL @ 4773.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Landmark

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,814.0	15.90	173.10	1,791.4	-192.2	37.9	195.8	1.87	-0.97	5.70
1,907.0	16.20	173.30	1,880.8	-217.7	41.0	221.5	0.33	0.32	0.22
2,001.0	15.70	171.90	1,971.2	-243.3	44.3	247.3	0.67	-0.53	-1.49
2,094.0	16.50	168.50	2,060.5	-268.7	48.7	273.1	1.33	0.86	-3.66
2,188.0	17.50	167.20	2,150.4	-295.6	54.5	300.5	1.14	1.06	-1.38
2,282.0	16.90	169.80	2,240.2	-322.8	60.0	328.3	1.04	-0.64	2.77
2,375.0	16.20	166.50	2,329.4	-348.7	65.5	354.8	1.26	-0.75	-3.55
2,469.0	17.10	172.10	2,419.4	-375.2	70.4	381.7	1.96	0.96	5.96
2,562.0	17.10	171.30	2,508.3	-402.2	74.4	409.0	0.25	0.00	-0.86
2,655.0	17.40	170.10	2,597.1	-429.4	78.8	436.6	0.50	0.32	-1.29
2,748.0	18.20	171.80	2,685.7	-457.5	83.3	465.0	1.03	0.86	1.83
2,843.0	18.70	170.60	2,775.8	-487.2	87.9	495.1	0.66	0.53	-1.26
2,937.0	18.60	169.00	2,864.9	-516.8	93.2	525.1	0.55	-0.11	-1.70
3,031.0	17.20	167.00	2,954.3	-545.1	99.2	554.0	1.63	-1.49	-2.13
3,124.0	17.10	167.50	3,043.2	-571.8	105.2	581.4	0.19	-0.11	0.54
3,217.0	15.90	167.70	3,132.3	-597.6	110.9	607.8	1.29	-1.29	0.22
3,311.0	14.40	169.30	3,223.1	-621.7	115.8	632.3	1.66	-1.60	1.70
3,404.0	15.50	170.00	3,312.9	-645.3	120.1	656.3	1.20	1.18	0.75
3,497.0	15.20	169.60	3,402.6	-669.5	124.5	680.9	0.34	-0.32	-0.43
3,591.0	16.00	172.90	3,493.1	-694.5	128.3	706.2	1.27	0.85	3.51
3,685.0	15.30	172.60	3,583.7	-719.6	131.5	731.5	0.75	-0.74	-0.32
3,778.0	16.00	168.40	3,673.2	-744.4	135.7	756.6	1.43	0.75	-4.52
3,871.0	18.40	167.80	3,762.0	-771.3	141.4	784.1	2.59	2.58	-0.65
3,964.0	18.60	168.90	3,850.2	-800.2	147.3	813.6	0.43	0.22	1.18
4,058.0	18.50	168.60	3,939.4	-829.5	153.2	843.5	0.15	-0.11	-0.32
4,152.0	18.30	171.10	4,028.6	-858.7	158.4	873.2	0.87	-0.21	2.66
4,245.0	17.10	172.90	4,117.1	-886.7	162.3	901.4	1.42	-1.29	1.94
4,340.0	17.80	175.90	4,207.8	-915.0	165.1	929.8	1.20	0.74	3.16
4,433.0	17.80	179.30	4,296.3	-943.4	166.3	957.9	1.12	0.00	3.66
4,527.0	17.40	174.90	4,385.9	-971.8	167.7	986.1	1.48	-0.43	-4.68
4,621.0	16.80	175.60	4,475.8	-999.3	170.0	1,013.6	0.67	-0.64	0.74
4,714.0	17.40	171.70	4,564.7	-1,026.5	173.0	1,040.9	1.39	0.65	-4.19
4,808.0	16.00	171.30	4,654.7	-1,053.2	177.0	1,067.9	1.49	-1.49	-0.43
4,902.0	14.50	168.30	4,745.4	-1,077.5	181.4	1,092.6	1.80	-1.60	-3.19
4,996.0	16.20	168.80	4,836.0	-1,101.9	186.3	1,117.5	1.81	1.81	0.53
5,090.0	15.00	171.20	4,926.6	-1,126.8	190.7	1,142.8	1.45	-1.28	2.55
5,183.0	14.40	167.20	5,016.5	-1,150.0	195.1	1,166.4	1.27	-0.65	-4.30
5,276.0	13.70	167.30	5,106.7	-1,172.0	200.1	1,188.9	0.75	-0.75	0.11
5,371.0	10.70	163.50	5,199.6	-1,191.4	205.1	1,208.9	3.27	-3.16	-4.00
5,464.0	9.50	162.70	5,291.1	-1,207.0	209.8	1,225.1	1.30	-1.29	-0.86
5,557.0	7.60	163.30	5,383.1	-1,220.3	213.9	1,238.8	2.05	-2.04	0.65
5,650.0	6.60	167.10	5,475.4	-1,231.4	216.8	1,250.3	1.19	-1.08	4.09
5,744.0	5.40	165.80	5,568.9	-1,240.9	219.1	1,260.1	1.28	-1.28	-1.38
5,838.0	3.70	160.50	5,662.6	-1,248.1	221.2	1,267.5	1.86	-1.81	-5.64
5,932.0	2.90	156.90	5,756.4	-1,253.1	223.2	1,272.8	0.88	-0.85	-3.83
6,025.0	1.60	158.00	5,849.3	-1,256.5	224.6	1,276.4	1.40	-1.40	1.18
6,075.7	1.43	151.17	5,900.1	-1,257.7	225.1	1,277.7	0.49	-0.34	-13.46
TARGET BHL 2550'FSL, 1320'FWL									
6,119.0	1.30	144.00	5,943.3	-1,258.6	225.7	1,278.6	0.49	-0.29	-16.57
6,213.0	1.10	117.80	6,037.3	-1,259.8	227.1	1,280.1	0.61	-0.21	-27.87
6,306.0	1.10	93.80	6,130.3	-1,260.3	228.8	1,280.9	0.49	0.00	-25.81
6,399.0	1.20	65.00	6,223.3	-1,260.0	230.6	1,280.9	0.62	0.11	-30.97
6,492.0	1.40	32.00	6,316.2	-1,258.6	232.1	1,279.8	0.82	0.22	-35.48
6,586.0	0.60	31.40	6,410.2	-1,257.2	232.9	1,278.6	0.85	-0.85	-0.64

Company: NOBLE ENERGY INC WELD COUNTY CO
 Project: SEC.12-T4N-R65W
 Site: Easton G12-20D Pad Sec.12-T4N-R65W
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Local Co-ordinate Reference: Site Easton G12-20D Pad Sec.12-T4N-R65W
 TVD Reference: WELL @ 4773.0ft (Original Well Elev)
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 Survey Calculation Method: Minimum Curvature
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Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,679.0	1.10	14.50	6,503.2	-1,255.9	233.4	1,277.4	0.60	0.54	-18.17
6,772.0	0.90	7.30	6,596.2	-1,254.3	233.7	1,275.9	0.25	-0.22	-7.74
6,866.0	1.30	4.60	6,690.2	-1,252.5	233.9	1,274.1	0.43	0.43	-2.87
6,942.6	1.71	1.77	6,766.7	-1,250.5	234.0	1,272.2	0.54	0.53	-3.70
TARGET CIRCLE 2550'FSL, 1320'FWL									
6,960.0	1.80	1.30	6,784.2	-1,250.0	234.0	1,271.7	0.54	0.53	-2.67
7,053.0	2.50	355.10	6,877.1	-1,246.5	233.9	1,268.2	0.79	0.75	-6.67
7,146.0	3.20	334.70	6,970.0	-1,242.1	232.6	1,263.7	1.31	0.75	-21.94
7,240.0	3.30	317.20	7,063.8	-1,237.8	229.6	1,258.9	1.06	0.11	-18.62
7,333.0	3.90	317.00	7,156.6	-1,233.5	225.7	1,254.0	0.65	0.65	-0.22
7,408.0	4.70	319.28	7,231.4	-1,229.3	221.9	1,249.2	1.09	1.07	3.04
HARD LINES 95'N of BHL									
7,417.0	4.80	319.50	7,240.4	-1,228.8	221.4	1,248.5	1.09	1.08	2.47
7,462.0	4.80	319.50	7,285.2	-1,225.9	219.0	1,245.3	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____